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Development of solar blind UV extended APD for readout of Barium Floride crystals

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Barium fluoride crystals are the current choice for the
calorimeter of the Mu2e experiment at Fermilab.
By the fast (decay time 0.9 ns) 220 nm scintillation component and discriminating against the larger slow (decay time 650ns) 300 nm component, it is possible to build a radiation-hard calorimeter with good energy and time
resolution and high rate capability. This requires a solid state
photosensor with high quantum efficiency at 220 nm,
discrimination against the 300 nm component and good rise and decay
times.
Progress on the development of such a
sensor will be discussed.

Primary author: Prof. HITLIN, David (Caltech)

Presenter: Prof. HITLIN, David (Caltech)

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